INDEX TO VOLUME XLV

Aa lavas (A. E. Jones), 873

Abrasion of sand grains in Mississippi River (R. D. Russell and R. E. Taylor), 225

Additive metamorphism, small granodioritic blocks formed by (G. E. Goodspeed), 741

Adjustment of calcium bicarbonate solutions, the rate of (A. Van Hook), 784

Advance, the recent, of Black Rapids glacier, Alaska (J. H. Hance), 775

Alaska, the recent advance of Black Rapids glacier (J. H. Hance), 775

Albite-oligoclase in the Black Mountain leucogranodiorite, Vt. (M. S. Church), 771

Algae, fossil, from the Kundelungu series of Northern Rhodesia (B. E. Ashley), 332

Algoman granites (R. T. Chamberlin), 672

Allegheny erosion surface (W. S. Cole), 145, 150

Alling, H. L. Interpretative petrology of the igneous rocks. Review by F. J. Pettijohn, 567

Alluvial fan, profile of (W. C. Krumbein), 586

Alteration of the Lincoln sill (J. M. Trefethen), 380

Amerikanische Landschaft. Review by Jean Grace, 572

Anderson, G. E. Cited on wear of sand grains (R. D. Russell and R. E. Taylor), 226, 227

Andesine-diabase in the Ritter region, Calif. (H. D. Erwin), 399, 406

Andesites of Los Santos, Panama (D. F. MacDonald), 660

Annealing of glass (J. M. Ide), 703

Anomodont, a new, the skull structure of (E. C. Olson), 851

Apophyses of the Black Mountain leucogranodiorite, Vt. (M. S. Church), 765, 773

Appalachian orogeny (R. T. Chamberlin), 664

Plateau, erosion surfaces of (W. S. Cole), 141

Arabia, bas-relief drainage in Nejd (R. P. Miller), 432

Araliaephyllum paluxyense Ball (O. M. Ball), 530

Argillaceous concretions in Fayetteville shale (A. W. Giles and A. M. Jones), 205

Ascutney, Mount, dispersion of boulders in boulder train (W. C. Krumbein), 590

Ashley, Burton Edward. *Fossil algae from the Kundelungu series of Northern Rhodesia* (B. E. Ashley), 332

Ashley, G. H. Cited on Appalachian peneplains (W. S. Cole), 141, 148, 156

Asia: a regional and economic geography. By L. Dudley Stamp. Review by Jean Grace, 352

Assimilation, a process of diversification of igneous rocks (J. S. DeLury), 381

of rock by magma (C. N. Fenner), 165

Atlas for the geology of Szechuan Province and eastern Sikang. By H. C. Tann and C. Y. Lee. Review by Jean Grace, 350

Atwood, W. W., Jr. *Records of Pleistocene glaciers in the Medicine Bow and Park ranges*, 113

Authigenic character of illite in clays from limestones and dolomites of Illinois (R. E. Grim, J. E. Lamar, and W. F. Bradley), 839

explosion breccias in northeastern Missouri (G. W. Rust), 71

Autoclastics in northeastern Missouri (G. W. Rust), 71

Avalanches, striations developed by (J. L. Dyson), 549

Ball, O. M. *A dicotyledonous florule from the Trinity group of Texas*, 528

Barbour, G. B. Physiographic history of the Yangtze. Review by R. T. Chamberlin, 222

Barton, D. C. Review of Internationaler Geologen und Mineralogen Kalender. By E. Beyenburg, 573
Review of Reports on the geology of Cameron and Vermillion parishes. By Henry V. Howe *et al.*, 109

Basaltic lava flows, the formation of (A. E. Jones), 872

Basement complex, Republic granite or? (C. A. Lamey), 487

Basin and Range Province in New Mexico, a border feature of the: The Ceja del Rio Puerco, I: *Stratigraphy and structure* (K. Bryan and F. T. McCann), 801

Basins, Great Lakes, origin of (F. P. Shepard), 76

Bas-relief, drainage lines in (R. P. Miller), 432

Bastin, E. S. Cited on Lincoln sill, Me. (J. M. Trefethen), 354, 359

Beach pebbles, exponential curves applied to (W. C. Krumbein), 579

Bear Creek Glacier, Park Range (W. W. Atwood, Jr.), 134

Beartooth buttress, Livingston Peak area, Mont. (E. C. H. Lammers), 293

Beartooth Mountains, Montana, petrology, structure, and relation to tectonics of porphyry intrusions in the (J. T. Rouse, H. H. Hess, F. Foote, J. S. Vhay, and K. P. Wilson), 717
Mountains, Mont., structural geology of the Livingston Peak area (E. C. H. Lammers), 268
Plateau, Mont. (J. T. Rouse *et al.*), 729

Beaver Glacier, Park Range (W. W. Atwood, Jr.), 137

Behre, C. H. Review of Economic geology of mineral deposits. By E. R. Lilley, 564
Review of Erläuterung zur geologisch-morphologischen Übersichtskarte des nord-deutschen Vereisungsgebietes. By P. Woldstedt, 462
Review of Grundzüge der Geologie und Lagerstättenkunde Chiles. By J. Brüggen, 565

Belt series in the Salmon River region, Idaho (R. A. Wilson), 203

Belts, shifting orogenic, of the southern Canadian shield. Studies for students (R. T. Chamberlin), 663

Beyenburg, Edmund. Internationaler Geologen und Mineralogen Kalender. Review by D. C. Barton, 573

Big Creek Glacier, Park Range (W. W. Atwood, Jr.), 125

Biotite in the Black Mountain leucogranodiorite, Vt. (M. S. Church), 773

Black Mountain leucogranodiorite at West Dummerston, Vermont, a quantitative petrographic study of the (M. S. Church), 763

Black Rapids glacier, Alaska, the recent advance of (J. H. Hance), 775

Blackwelder, Eliot. Cited on exfoliation (R. Farmin), 625

Blondel, F. La Géologie et les mines des vieilles plateformes. Review by Jean Grace, 350

Boulder train, dispersion of glacial boulders in a (W. C. Krumbein), 590

Boulders of granodiorite, exfoliated (R Farmin), 626

Bowen, N. L. Cited on magmatic differentiation (C. N. Fenner), 158; (J. S. DeLury), 389

Brachyprosopus broomi from S. Africa (E. C. Olson), 851

Bradley, W. F., R. E. Grim, and J. E. Lamar. *The clay minerals in Illinois limestones and dolomites,* 829

Bradley, W. H. Geomorphology of the north flank of the Uinta Mountains. Review by W. E. Powers, 340

Brain case of *Brachyprosopus broomi* (E. C. Olson), 855

British regional geology: The Grampian Highlands. By H. H. Read. Review by R. T. Chamberlin, 881
Scotland, the Tertiary volcanic districts. By J. E. Richey. Review by R. T. Chamberlin, 881

Brüggen, Juan. Grundzüge der Geologie und Lagerstättenkunde Chiles. Review by C. H. Behre, 565

Brush Creek Glacier, Medicine Bow Range (W. W. Atwood, Jr.), 120

Bryan, Kirk, and F. T. McCann. *The Ceja del Rio Puerco: A border feature of the Basin and Range Province in New Mexico,* I: *Stratigraphy and structure,* 801

Bushveld lopolith in problem of differentiation (C. N. Fenner), 162

Bysmachelys canyonensis, a new turtle from the Pliocene of Texas (C. S. Johnston), 439

Calcareous concretions in Fayetteville shale (A. W. Giles and A. M. Jones), 205
Calcite as a factor in the adjustment of calcium bicarbonate solutions (A. Van Hook), 784
Calcium bicarbonate solutions, the rate of adjustment of (A. Van Hook), 784
Caliche beds in Nejd, Saudi Arabia (R. P. Miller), 432
California Coast Range type, folding of the, illustrated by a series of experiments (B. L. Clark), 296
the contact-metamorphic deposit of Round Valley (R. W. Chapman), 859
Mesozoic geology of the Ritter region, Sierra Nevada (H. D. Erwin), 391
shoreline physiography (W. C. Putnam), 844
Canadian shield, southern, shifting orogenic belts of the. Studies for students (R. T. Chamberlin), 663
Canyada las Milpas fault, N.M. (K. Bryan and F. T. McCann), 820
Moquino fault, N.M. (K. Bryan and F. T. McCann), 822
Navajo fault, N.M. (K. Bryan and F. T. McCann), 820
Capture of streams, types of (I. B. Crosby), 466
Carapace of *Bysmachelys canyonensis* (C. S. Johnston), 446
Carbon dioxide as a factor in the adjustment of calcium bicarbonate solutions (A. Van Hook), 784
Cataclastic metamorphism in the Ritter region, Calif. (H. D. Erwin), 397
Caves in lava (C. R. Swartzlow and W. D. Keller), 101
Cayeux, Lucien. Les Roches sedimentaires de France—roches carbonatées (calcaires et dolomies). Review by W. C. Krumbein, 219
Cecil Park Glacier, Medicine Bow Range (W. W. Atwood, Jr.), 120
Ceja del Rio Puerco, the: A border feature of the Basin and Range Province in New Mexico, I: *Stratigraphy and structure*. (K. Bryan and F. T. McCann), 801
Chamberlin, R. T. *Shifting orogenic belts of the southern Canadian shield. Studies for students*, 663
Review of British regional geology: The Grampian Highlands. By H. H. Read, 881
Review of British regional geology: Scotland, the Tertiary volcanic districts. By J. E. Richey, 881
Review of East African plateaus and rift valleys. By Bailey Willis, 216
Letter to the editor concerning (B. Willis), 336
Review of the geological map: An elementary text book for students of geography and geology. By K. W. Earle, 112
Review of Great earthquakes. By Charles Davison, 574
Review of Peary. By W. H. Hobbs, 682
Review of Physiographic history of the Yangtze. By G. B. Barbour, 222
Review of The structure of the Alps. By L. W. Collet, 574
Chapman, Randolph W. *The contact-metamorphic deposit of Round Valley, California*, 859
Chemical analysis of the Lincoln sill (J. M. Trefethen), 370
attack as an agent of exfoliation (R. Farmin), 630
composition of the igneous rocks of the Beartooth Mountains, Mont. (J. T. Rouse *et al.*), 737
data concerning pegmatite dike near Goudreau, Ont. (J. L. Lindner), 560
variation in the Sudbury irruptive (T. C. Phemister), 27
Church, Mary S. *A quantitative petrographic study of the Black Mountain leucogranodiorite at West Dummerston, Vermont*, 763
Cinnamomum paluxyense Ball (O. M. Ball), 534
Clark, Bruce L. *Folding of the California Coast Range type illustrated by a series of experiments*, 296
Classification of marine shorelines, revised (F. P. Shepard), 602
Clay minerals in Illinois limestones and dolomites (R. E. Grim, J. E. Lamar, and W. F. Bradley), 829
Climatic effects on formation of Toreva-blocks (Parry Reiche), 548

Cloverleaf Glacier, Park Range (W. W. Atwood, Jr.), 131

Coal in the Price formation, Va. (B. N. Cooper), 418

Coast Range, California, type, folding of the, illustrated by a series of experiments (B. L. Clark), 296

Coastline, marine cycle of erosion (W. C. Putnam), 844

Cole, W. Storrs. *Development and structural control of erosion surfaces*, 141
Modification of incised meanders by floods, 648

Collet, Leon W. The structure of the Alps. Review by R. T. Chamberlin, 574

Collins, W. H. Cited on Sudbury irruptive (T. C. Phemister), 35

Colorado, Pleistocene, glaciation in the Medicine Bow and Park ranges (W. W. Atwood), 113

Comanchean, a dicotyledonous florule from the Trinity group (O. M. Ball), 528

Complex, basement, Republic granite or? (C. A. Lamey), 487

Concretions in the Fayetteville shale (A.W. Giles and A. M. Jones), 204

"Conglomerate" (explosion breccia) in northeastern Missouri (G. W. Rust), 49

Contact-metamorphic deposit of Round Valley, California (R. W. Chapman), 859

Contributions to Panama geology (D. F. MacDonald), 655

Control, structural, of erosion surfaces, development and (W. S. Cole), 141

Cooper, Byron N. *The Price formation in the Draper Mountain area, Virginia*, 414

Cooper, John R. Geology of the southern half of the Bay of Islands igneous complex. Review by Jean Grace, 461

Cope, Labidosaurus, a mounted skeleton of (E. C. Olson), 95

Copper, velocity of sound in (J. M. Ide), 694

Coralloidal opal (C. R. Swartzlow and W. D. Keller), 101

Corbett, C. S. *Cross-bedding and formation thickness determinations*, 89

Correlation, clay minerals an aid in (R. E. Grim, J. E. Lamar, and W. F. Bradley), 841
of granites of Southern Complex, Mich. (C. A. Lamey), 507
of the Price formation, Va. (B. N. Cooper), 427

Cranial morphology of a new gorgonopsian (E. C. Olson), 511

Cretaceous age of porphyries, Mont. (J. T. Rouse *et al.*), 736
a dicotyledonous florule from the Trinity group (O. M. Ball), 528
rocks in New Mexico (K. Bryan and F. T. McCann), 803
shales in northeastern Arizona (P. Reiche), 540

Croneis, Carey. Review of Devonian stromatoporoids of North America. By W. A. Parks, 341
Review of Procedure in taxonomy. By E. T. Schenk and J. H. McMasters, 344
Review of Tertiary faunas: A textbook for oil field paleontologists and students of geology, Vol. I: The composition of Tertiary faunas. By A. Morley Davies, 342
Review of Type invertebrate fossils of North America (Devonian), Unit 7*b*, Ammonoidea. By A. K. Miller, 460
and W. C. Krumbein. Down to earth. Review by A. C. Trowbridge, 458

Crosby, Irving B. *Methods of stream piracy*, 465

Cross-bedding and formation thickness determinations (C. S. Corbett), 89

Crustal movement, Sierra Nevada pluton and (E. B. Mayo), 169

Cryptovolcanic structures in southeastern Missouri (G. W. Rust), 48

Crystal fractionation in magmatic differentiation (C. N. Fenner), 158

Cumberland Plateau, sinkholes of the (R. A. Laurence), 214

Curves, exponential, sediments and (W. C. Krumbein), 577

Cycle of erosion, the marine, for a steeply sloping shoreline of emergence (W. C. Putnam), 844

Cyonosaurus longiceps, a new gorgonopsian (E. C. Olson), 511

Damping of vibrations in rocks (J. M Ide), 716

Daubrée, A. Cited on rounding of sand grains (R. D. Russell and R. E. Taylor), 227
Davies, A. Morley. Tertiary faunas: A textbook for oil field paleontologists and students of geology, Vol. I: The composition of Tertiary faunas. Review by Carey Croneis, 342
Davison, Charles. Great earthquakes. Review by R. T. Chamberlin, 574
Deep Creek Ridge fault, Livingston Peak, Mont. (E. C. H. Lammers), 272
Deformation in Livingston Peak area, Mont. (E. C. H. Lammers), 288
DeLury, J. S. *Heterogeneity of parent magma*, 381
Depositional modification of meanders by floods (W. S. Cole), 652
Determinations, cross-bedding and formation thickness (C. S. Corbett), 89
Development and structural control of erosion surfaces (W. S. Cole), 141
Devonian, Middle, of southern Indiana (D. G. Sutton and A. H. Sutton), 320
stromatoporoids of North America. By W. A. Parks. Review by Carey Croneis, 341
Diabase pegmatites in differentiation problem (C. N. Fenner), 159
–quartz-diabase group, Sudbury irruptive (T. C. Phemister), 2
Vinal Haven, the velocity of sound in (J. M. Ide), 709
Diastrophism in glaciated territory (F. P. Shepard), 81
Diatremes in southeastern Missouri (G. W. Rust), 49, 57
Dickey, R. M. Cited on granite of the Southern Complex, Mich. (C. A. Lamey), 490, 499, 500, 503
Dicotyledonous florule from the Trinity group of Texas (O. M. Ball), 528
Didelphidae, new marsupial from Nebraska (P. O. McGrew), 449
Didelphinae, new marsupial from Nebraska (P. O. McGrew), 449
Differentiation of igneous rocks (J. S. DeLury), 381
magmatic, a view of (C. N. Fenner), 158
as origin of the Lincoln sill (J. M. Trefethen), 375
processes, Sudbury irruptive (T. C. Phemister), 1
Dikes of diabase at Sudbury (T. C. Phemister), 5
in southeastern Missouri (G. W. Rust), 56
Dilation as agent of exfoliation (R. Farmin), 631
Diorite-porphyry in the Ritter region, Calif. (H. D. Erwin), 399, 406
Dispersion of glacial boulders in a boulder train (W. C. Krumbein), 590
Distinctive landslide type, the Toreva-block —(P. Reiche), 538
District of Kenora (Patricia portion), Ontario, glacial Lakes Ponask and Sachigo (J. Satterly), 790
Dolomites, Illinois limestones and, the clay minerals in (R. E. Grim, J. E. Lamar, and W. F. Bradley), 829
Down to earth. By C. Croneis and W. C. Krumbein. Review by A. C. Trowbridge, 458
Drag folding in California Coast Range (B. L. Clark), 296
Drag folds in the Lincoln sill (J. M. Trefethen), 369
Drainage lines in bas-relief (R. P. Miller), 432
Draper Mountain area, Virginia, the Price formation in the (B. N. Cooper), 414
Dynamic metamorphism of a pegmatite (J. L. Lindner), 558
Dyson, J. L. *Snowslide striations*, 549

Eades, N. W. The geology of the Iramba Plateau. Review by Jean Grace, 576
Earle, Kenneth W. The geological map: An elementary text book for students of geography and geology. Review by R. T. Chamberlin, 112
East African plateaus and rift valleys. By Bailey Willis. Review by R. T. Chamberlin, 216
Letter to the editor concerning (B. Willis), 336
East Boulder plateau, Mont. (J. T. Rouse *et al.*), 729
Economic geology of mineral deposits. By E. R. Lilley. Review by C. H. Behre, 564
Elinvar, velocity of sound in (J. M. Ide), 694
Elk Glacier, Park Range (W. W. Atwood, Jr.), 123

Emergence, a steeply sloping shoreline of, the marine cycle of erosion for a (W. C. Putnam), 844

Emergent coastlines, classification of (F. P. Shepard), 603

En echelon tension fractures, Sierra Nevada pluton (E. B. Mayo), 185

Encampment Glacier, Park Range (W. W. Atwood, Jr.), 137

Engineering geology. By H. Ries and T. L. Watson. Review by H. W. Straley, 568

Enos Mountain, Mont. (J. T. Rouse *et al.*), 724

Environment and nation. By G. Taylor. Review by Jean Grace, 571

Eocene rocks of Los Santos, Panama (D. F. MacDonald), 657
sediments of Mississippi. By R. E. Grim. Review by Jean Grace, 798

Erläuterung zur geologisch-morphologischen Übersichtskarte des norddeutschen Vereisungsgebietes. By P. Woldstedt. Review by C. H. Behre, 462

Erosion, the marine cycle of, for a steeply sloping shoreline of emergence (W. C. Putnam), 844
surfaces, development and structural control of (W. S. Cole), 141

Erosional modification of meanders by floods (W. S. Cole), 648

Eruption of Mt. Pelée 1929–1932, the. By F. A. Perrett. Review by G. F. Shepherd, 110

Erwin, Homer D. *Mesozoic geology of the Ritter region, Sierra Nevada, California*, 391

Evaporation as a factor in the adjustment of calcium bicarbonate solutions (A. Van Hook), 784

Evidence of multiple glaciation in the northern part of Yellowstone National Park (N. A. Miner), 636

Exfoliation, hypogene, in rock masses (R. Farmin), 625

Experimental determination of the velocity of sound in rocks and glasses (J. M. Ide), 690

Experiments, a series of, folding of the California Coast Range type illustrated by (B. L. Clark), 296

Explosive volcanism in southeastern Missouri, preliminary notes on (G. W. Rust), 48

Exponential curves, sediments and (W. C. Krumbein), 577

Fan, alluvial, profile of (W. C. Krumbein), 586

Farmin, Rollin. *Hypogene exfoliation in rock masses*, 625

Farmington anticline, Mo. (G. W. Rust), 51

Fault pattern of the Sierra Nevada pluton (E. B. Mayo), 182
-scarp coast (F. P. Shepard), 617

Faulting in California Coast Range (B. L. Clark), 296
in the Livingston Peak area, Mont. (E. C. H. Lammers), 272
in the Ritter region, Calif. (H. D. Erwin), 410
in the Salmon River region, Idaho (R. A. Wilson), 196

Faults of the Ceja area, N.M. (K. Bryan and F. T. McCann), 818

Fauna of the Price formation, Va. (B. N. Cooper), 425

Fayetteville shale, concretions in the (A. W. Giles and A. M. Jones), 204

Felsschlipfe (Parry Reiche), 538

Felsstürtze (Parry Reiche), 538

Fenner, C. N. *A view of magmatic differentiation*, 158
Cited on diversification of igneous rocks (J. S. DeLury), 384

Fiord coastline (F. P. Shepard), 609

Fish Creek glacier, Park Range (W. W. Atwood, Jr.), 130

Fisher, D. J. Review of Gulf Coast oil fields: A symposium on the Gulf Coast Cenozoic, 573
Review of Klockmann's Lehrbuch der Mineralogie. By Paul Ramdohr, 345
Review of Rutley's elements of mineralogy. By H. H. Read, 348

Fisher, Lloyd W. Review of An introduction to historical geology. By W. J. Miller, 799

Fitzhugh, E. F. Treasures in the earth. Review by W. C. Krumbein, 349

Flattop Mountain Glacier, Park Range (W. W. Atwood, Jr.), 135

Flexures in Livingston Peak area, Mont. (E. C. H. Lammers), 278

Floods, modification of incised meanders (W. S. Cole), 648

Florule, a dicotyledonous, from the Trinity group of Texas (O. M. Ball), 528
Flow structure in Lincoln sill, Me. (J. M. Trefethen), 362
in the Sierra Nevada pluton (E. B. Mayo), 176
Flows, basaltic lava, the formation of (A. E. Jones), 872
Folding of the California Coast Range type illustrated by a series of experiments (B. L. Clark), 296
in the Livingston Peak area, Mont. (E. C. H. Lammers), 278
of the Ritter region, Calif. (H. D. Erwin), 403
Foliation of the Lincoln sill, Me. (J. M. Trefethen), 362, 365
Foote, F., J. S. Vhay, K. P. Wilson, J. T. Rouse, and H. H. Hess. *Petrology, structure, and relation to tectonics of porphyry intrusions in the Beartooth Mountains, Montana*, 717
Formation of basaltic lava flows (A. E. Jones), 872
Formation thickness determinations, cross-bedding and (C. S. Corbett), 89
Formulas showing relation between cross-bedding and normal bedding (C. S. Corbett), 91, 92
Fossil algae from the Kundelungu series of Northern Rhodesia (B. E. Ashley), 332
content of the Price formation (B. N. Cooper), 425
content of the Santa Fe formation (K. Bryan and F. T. McCann), 807
Frebold, Hans. Geologie von Spitzbergen, der Bäreninsel, des König Karl- und Franz-Joseph-Landes. Review by L. M. Gould, 684
French Creek glacier, Medicine Bow Range (W. W. Atwood, Jr.), 115
French Creek norite, the velocity of sound in (J. M. Ide), 708

Gabbro-granophyre of Sudbury district, Ont. (T. C. Phemister), 9
of Los Santos, Panama (D. F. MacDonald), 659
Generation of magma (J. S. DeLury), 385
Geneva formation in Indiana (D. G. Sutton and A. H. Sutton), 320, 326
Geological map, the: An elementary text book for students of geography and geology. By K. W. Earle. Review by R. T. Chamberlin, 112
Survey of British Guiana: 1934 Reports; General Geology. Review by Jean Grace, 575
Géologie, la, et les mines des vieilles plateformes. By F. Blondel. Review by Jean Grace, 350
von Spitzbergen, der Bäreninsel, des König Karl- und Franz-Joseph-Landes. By Hans Frebold. Review by L. M. Gould, 684
stratigraphique. By M. Gignoux. Review by Jean Grace, 569
Geology and gold deposits of the Konawaruk. Review by Jean Grace, 575
and gold deposits of the Potaro. Review by Jean Grace, 575
of the Iramba Plateau. By N. W. Eades. Review by Jean Grace, 576
Mesozoic, of the Ritter region, Sierra Nevada, California (H. D. Erwin), 391
and mineral deposits of the Bay of Exploits area. By G. R. Heyl. Review by Jean Grace, 461
of the Minneapolis-St. Paul metropolitan area. By G. M. Schwartz. Review by Jean Grace, 464
Panama, contributions to (D. F. MacDonald), 655
of the southern half of the Bay of Islands igneous complex. By J. R Cooper. Review by Jean Grace, 461
the structural, of the Livingston Peak area, Montana (E. C. H. Lammers), 268
of the Tampico region, Mexico. By J. M. Muir. Review by L. B. Kellum, 339
Geomorphology of the north flank of the Uinta Mountains. By W. H. Bradley. Review by W. E. Powers, 346
Gignoux, M. Géologie stratigraphique. Review by Jean Grace, 569
Giles, A. W., and A. M. Jones. *Concretions in the Fayetteville shale*, 204
Glacial boulders in a boulder train, dispersion of (W. C. Krumbein), 590
control in classification of shorelines (F. P. Shepard), 602
erosion as origin of Great Lakes basins (F. P. Shepard), 77
Lakes Ponask and Sachigo, District of Kenora (Patricia portion), Ontario (J. Satterly), 790
trough coastline (F. P. Shepard), 609

Glaciation, evidence of multiple, in the northern part of Yellowstone National Park (N. A. Miner), 636

Glaciers, records of Pleistocene, in the Medicine Bow and Park ranges (W. W. Atwood, Jr.), 113

Glasses, the velocity of sound in rocks and, as a function of temperature (J. M. Ide), 689

Gneisses, sedimentary, of the Salmon River region near Shoup, Idaho (R. A. Wilson), 193

Gold Hill, Mont. (J. T. Rouse), 726

Goodspeed, G. E. *Small granodioritic blocks formed by additive metamorphism*, 741

Gorgonopsian, the cranial morphology of a new (E. C. Olson), 511

Gould, L. M. Review of Geologie von Spitzbergen, der Bäreninsel, des König-Karl und Franz-Joseph-Landes. By Hans Frebold, 684.

Grace, Jean. Review of Amerikanische Landschaft, 572

Review of Asia: A regional and economic geography. By L. Dudley Stamp, 352

Review of Atlas for the geology of Szechuan Province and eastern Sikang. By H. C. Tann and C. Y. Lee, 350

Review of Environment and nation. By Griffith Taylor, 571

Review of The Eocene sediments of Mississippi. By R. E. Grim, 798

Review of Geological Survey of British Guiana: 1934 Reports; General geology, 575

Review of La Géologie et les mines des vieilles plateformes. By F. Blondel, 350

Review of Géologie stratigraphique. By M. Gignoux, 569

Review of Geology and gold deposits of the Konawaruk, 575

Review of Geology and gold deposits of the Potaro, 575

Review of The Geology of the Iramba Plateau. By N. W. Eades, 576

Review of Geology and mineral deposits of the Bay of Exploits area. By G. R. Heyl, 461

Review of The geology of the Minneapolis-St. Paul metropolitan area. By G. M. Schwartz, 464

Review of Geology of the southern half of the Bay of Islands igneous complex. By J. R. Cooper, 461

Review of An island is born. By N. D. Stearns, 576

Review of Lehrbuch der Geologie Teil III: Geologische Länderkunde (Regionale Geologie). By F. X. Schaffer, 576

Review of Our natural resources and their conservation. By A. E. Parkins and J. R. Whitaker, 570

Review of Preliminary report on the gold deposits of the Virginia piedmont. By C. F. Park, 688

Review of Stratigraphic classification of the Pennsylvanian rocks of Kansas. By R. C. Moore, 799

Review of Structural evolution of Southern California. By R. D. Reed and J. S. Hollister, 797

Granite, republic, or basement complex? (C. A. Lamey), 487

in the Ritter region, Calif. (H. D. Erwin), 402, 408

the velocity of sound in (J. M. Ide), 705

Granites of Los Santos, Panama (D. F. MacDonald), 658

Granites near Shoup, Idaho (R. A. Wilson), 195

Granitization of sediments (C. N. Fenner), 164

Granitoid blocks in metamorphosed hornfels (G. E. Goodspeed), 748

Granodiorite, exfoliation in (R. Farmin), 626

Granodioritic blocks, small, formed by additive metamorphism (G. E. Goodspeed), 741

Great earthquakes. By Charles Davison. Review by R. T. Chamberlin, 574

Great Lakes basins, origin of (F. P. Shepard), 76

Gregory, G. K. Cited on landslides in Arizona (Parry Reiche), 542

Grim, Ralph Early. The Eocene sediments of Mississippi. Review by Jean Grace, 798

J. E. Lamar, and W. F. Bradley. *The clay minerals in Illinois limestones and dolomites*, 829

Grooving by snowslides (J. L. Dyson), 549

Grundzüge der Geologie und Lagerstättenkunde Chiles. By J. Brüggen. Review by C. H. Behre, 565

Gulf Coast oil fields: A symposium on the Gulf Coast Cenozoic. Review by D. J. Fisher, 573

Gypsum concretions in Fayetteville shale (A. W. Giles and A. M. Jones), 210

Hance, James H. *The recent advance of Black Rapids glacier, Alaska*, 775
Harker, A. Cited on diversification of igneous rocks (J. S. DeLury), 384, 388
Harrisburg erosion surface (W. S. Cole), 141, 150
Hawaii, eruption of Kilauea (A. E. Jones), 873
Headward erosion in stream capture (I. B. Crosby), 407
Heim, A. Cited on landslide types (Parry Reiche), 538
Hess, H. H., F. Foote, J. S. Vhay, K. P. Wilson, and J. T. Rouse. *Petrology, structure, and relation to tectonics of porphyry intrusions in the Beartooth Mountains, Montana*, 717
Heterogeneity of parent magma (J. S. DeLury), 381
Heyl, G. R. Geology and mineral deposits of the Bay of Exploits area. Review by Jean Grace, 461
Hinman Glacier, Park Range (W. W. Atwood, Jr.), 123
Hobbs, W. H. Peary. Review by R. T. Chamberlin, 682
Hollister, J. S., and R. D. Reed. Structural evolution of Southern California. Review by Jean Grace, 797
Hornfels altered by additive metamorphism (G. E. Goodspeed), 743
  at Round Valley, Calif. (R. W. Chapman), 864
Horton, F. Cited on the rigidity modulus of silica glass (J. M. Ide), 701
Howe, Henry V., *et al.* Reports on the geology of Cameron and Vermillion parishes. Review by D. C. Barton, 109
Hubbert, M. King. Review of Introduction to theoretical seismology, Part I: Geodynamics. By J. B. Macelwane, S. J., 686
Hunt, W. F., L. S. Ramsdell, and E. H. Kraus. Mineralogy. Review by F. J. Pettijohn, 348
Huronian formations of the Southern Complex, Mich. (C. A. Lamey), 498
  sediments of the Canadian shield (R. T. Chamberlin), 673
Hybridism as origin of the Lincoln sill (J. M. Trefethen), 376
Hydrothermal metamorphism in hornfels (G. E. Goodspeed), 741
Hypermetamorphism in the Bancroft-Haliburton area (C. N. Fenner), 164
Hypogene exfoliation in rock masses (R. Farmin), 625

Ice erosin as origin of Great Lakes basins (F. P. Shepard), 77
Ide, John M. *The velocity of sound in rocks and glasses as a function of temperature*, 689
Igneous activity in northeastern Missouri (G. W. Rust), 48
  rocks, differentiation of (C. N. Fenner), 158; (J. S. DeLury), 381
  rocks of Los Santos, Panama (D. F. MacDonald), 658
  rocks of the Ritter region, Calif. (H. D. Erwin), 398
  rocks of the Sudbury Basin (T. C. Phemister), 8
Illinois limestones and dolomites, the clay minerals in (R. E. Grim, J. E. Lamar, and W. F. Bradley), 829
Illite in clays from limestones and dolomite from Illinois (R. E. Grim, J. E. Lamar, and W. F. Bradley), 839
Incised meanders, modification of, by floods (W. S. Cole), 648
Independence Glacier, Park Range (W. W. Atwood, Jr.), 136
Indiana, southern, Middle Devonian of (D. G. Sutton and A. H. Sutton), 320
Insolation as an agent of exfoliation (R. Farmin), 630
Insoluble rocks, underground methods of stream capture in (I. B. Crosby), 476
Internationaler Geologen und Mineralogen Kalender. By Edmund Beyenburg. Review by D. C. Barton, 573
Interpretative petrology of the igneous rocks. By H. L. Alling. Review by F. J. Pettijohn, 567
Introduction, an, to historical geology. By W. J. Miller. Review by Lloyd W. Fisher, 799
  to theoretical seismology, Part I: Geodynamics. By J. B. Macelwane, S.J. Review by M. King Hubbert, 686

Intrusion of the Black Mountain leucogranodiorite, Vt. (M. S. Church), 765

Intrusions, porphyry, in the Beartooth Mountains, Montana, petrology, structure, and relation to tectonics of (J. T. Rouse, H. H. Hess, F. Foote, J. S. Vhay, and K. P. Wilson), 717

Intrusive, Lincoln sill, Me. (J. M. Trefethen), 353
rocks of the Ritter region, Calif. (H. D. Erwin), 398
rocks of Round Valley, Calif. (R. W. Chapman), 862

Irruptive, Sudbury, a review of the problems of the (T. C. Phemister), 1

Island is born, an. By N. D. Stearns. Review by Jean Grace, 576

Jeffersonville limestone, Indiana (D. G. Sutton and A. H. Sutton), 320, 325

Jemez fault, N.M. (K. Bryan and F. T. McCann), 819

Johnson, Douglas. Cited on classification of shorelines (F. P. Shepard), 602
Cited on methods of stream capture (I. B. Crosby), 482

Johnston, C. Stuart. *Osteology of Bysmachelys canyonensis, a new turtle from the Pliocene of Texas*, 439

Joint patterns in the Sierra Nevada pluton (E. B. Mayo), 179

Jointing in the Lincoln sill (J. M. Trefethen), 368

Jones, A. M., and A. W. Giles. *Concretions in the Fayetteville shale*, 204

Jones, Austin E. *The formation of basaltic lava flows*, 872

Jones, Dan J. Review of The Welsh borderland. By R. W. Pocock and T. H. Whitehead, 352

Jutson, J. T. The physiography (geomorphology) of Western Australia. Review by F. C. MacKnight, 221

Karroo system, S. Africa, an anomodont from (E. C. Olson), 851

Keller, W. D., and C. R. Swartzlow. *Coralloidal opal*, 101

Kellum, L. B. Review of Geology of the Tampico region, Mexico. By J. M. Muir, 339

Kenora, District of (Patricia portion), Ontario, glacial Lakes Ponask and Sachigo (J. Satterly), 790

Keweenawan igneous activity, Ontario (T. C. Phemister), 3
rocks of the Canadian shield (R. T. Chamberlin), 673

Kilauea eruptions (A. E. Jones), 873

Killarnean age of granite of Southern Complex, Mich. (C. A. Lamey), 503

Killarney granites of the Canadian shield (R. T. Chamberlin), 677

Kittatinny erosion surface (W. S. Cole), 141, 150

Klockmann s Lehrbuch der Mineralogie. By P. Ramdohr. Review by D. J. Fisher, 345

Kraus, E. H., W. F. Hunt, and L. S. Ramsdell. Mineralogy. Review by F. J. Pettijohn, 348

Krumbein, W. C. *Sediments and exponential curves*, 577
Review of Les Roches sedimentaires de France—roches carbonatées (calcaires et dolomies). By Lucien Cayeux, 219
Review of The Snellius Expedition, Vol. II: Oceanographic results, Part II: Soundings and bathymetric charts. By P. M. Van Riel, 220
Review of Das Sonnwendgebirge im Unterinntal: Ein Typus alpinen Gebirgsbaues. By Franz Wähner, 349
Review of Treasures in the earth. By E. F. Fitzhugh, 349
Review of Wissenschaftliche Ergebnisse der deutschen atlantischen Expedition auf dem Forschungs- und Vermessungschiff "Meteor" 1925–1927, 456
and Carey Croneis. Down to earth. Review by A. C. Trowbridge, 458

Labidosaurus Cope, a mounted skeleton of (E. C. Olson), 95

Lake basins, glacial erosion in production of (F. P. Shepard), 76

Lake Superior region, orogenies of (R. T. Chamberlin), 667

Lakes Ponask and Sachigo, glacial, District of Kenora (Patricia portion), Ontario (J. Satterly), 790

Lamar, J. E., R. E. Grim, and W. F. Bradley. *The clay minerals in Illinois limestones and dolomites*, 829

Lamey, Carl A. *Republic granite or basement complex?* 487
Lammers, Edward C. H. *The structural geology of the Livingston Peak area, Montana*, 268
Landslide type, a distinctive, the Toreva-block (P. Reiche), 538
Lassen Peak, lava flows from (A. E. Jones), 875
Laurence, Robert A. *Sinkholes of the Cumberland Plateau*, 214
Laurential age of granite of the Southern Complex, Mich. (C. A. Lamey), 503
granites (R. T. Chamberlin), 667
Lava Creek valley, Yellowstone Park (N. A. Miner), 637
Lava flows, basaltic, the formation of (A. E. Jones), 872
flows of Los Santos, Panama (D. F. MacDonald), 661
tunnels (C. R. Swartzlow and W. D. Keller), 101
Lee, C. Y., and H. C. Tann. Atlas for the geology of Szechuan Province and eastern Sikang. Review by Jean Grace, 350
Lehrbuch der Geologie, Teil III: Geologische Länderkunde (Regionale Geologie). By F. X. Schaffer. Review by Jean Grace, 576
Letter to the editor (Bailey Willis), 336
Leucogranodiorite, the Black Mountain, at West Dummerston, Vermont, a quantitative petrographic study of (M. S. Church), 763
Lexington erosion surface (W. S. Cole), 145, 149
Libby glacier, Medicine Bow Range (W. W. Atwood, Jr.), 115
Lilley, Ernest R. Economic geology of mineral deposits. Review by C. H. Behre, 564
Limbs of *Bysmachelys canyonensis* (C. S. Johnston), 442
Limestones and dolomites, Illinois, the clay minerals in (R. E. Grim, J. E. Lamar, and W. F. Bradley), 829
of Los Santos, Panama (D. F. MacDonald), 657
Limonite concretions in Fayetteville shale (A. W. Giles and A. M. Jones), 209
Lincoln sill, the (J. M. Trefethen), 353
Livingston Glacier, Park Range (W. W. Atwood, Jr.), 132
Peak area, Montana, the structural geology of the (E. C. H. Lammers), 268
Lodgepole intrusive, Mont. (J. T. Rouse *et al.*), 721
Loess, variation in thickness of (W. C. Krumbein), 582
Lone Pine Glacier, Park Range (W. W. Atwood, Jr.), 134
Loomis, Frederic B. Physiography of the United States. Review by W. E. Powers, 685
Los Angeles basin, drag folding in (B. L. Clark), 313
Los Santos, Panama, geology of (D. F. MacDonald), 655

McCann, F. T., and K. Bryan. *The Ceja del Rio Puerco: A border feature of the Basin and Range Province in New Mexico.* I: *Stratigraphy and structure*, 801
MacDonald, Donald F. *Contributions to Panama geology*, 655
Macelwane, J. B., S. J. Introduction to theoretical seismology, Part I: Geodynamics. Review by M. King Hubbert, 686
McGrew, Paul O. *New marsupials from the Tertiary of Nebraska*, 448
Mackie, W. Cited on wear of sand grains (R. D. Russell and R. E. Taylor), 228
MacKnight, F. C. Review of The physiography (geomorphology) of Western Australia. By J. T. Jutson, 221
McMasters, John H., and E. T. Schenk. Procedure in taxonomy. Review by Carey Croneis, 344
Mad Creek Glacier, Park Range (W. W. Atwood, Jr.), 125
Magma, parent, heterogeneity of (J. S. DeLury), 381
Magmatic differentiation, a view of (C. N. Fenner), 158
Maine, the Lincoln sill in (J. M. Trefethen), 353
Mallott, C. Cited on static rejuvenation (W. S. Cole), 153
Map, alluvial-plain coastline (F. P. Shepard), 613
alluvial valley of the Mississippi River (R. D. Russell and R. E. Taylor), 236

areal geologic, of area adjoining Coyote Ridge, Sierra Nevada (D. B. Mayo), 178
areal geology of the Middle Devonian of southern Indiana (D. G. Sutton and A. H. Sutton), 324
atoll, Marshall island (F. P. Shepard), 623
Beartooth Mountains (J. T. Rouse *et al.*), 718
Black Rapids glacier, Alaska (J. H. Hance), 776
boundaries of Ontarian province of quartz-diabase (T. C. Phemister), 4
coast with offshore bar and longshore spit (F. P. Shepard), 622
coast prograded by wave deposition (F. P. Shepard), 622
coast straightened by building of bars across estuaries (F. P. Shepard), 621
contour, of Lake Superior (F. P. Shepard), 86
contour, of northern portion of Lake Michigan (F. P. Shepard), 87
Coy Glen, N.Y. (W. S. Cole), 649
fault-line coast (F. P. Shepard), 620
fault-scarp coast (F. P. Shepard), 616
fault-trough coast (F. P. Shepard), 617
fiord coastline (F. P. Shepard), 611
generalized areal, of southeastern Missouri (G. W. Rust), 52
geologic, of Black Mountain, Vt. (M. S. Church), 764
geologic, of the contact-metamorphic deposit of Round Valley, Calif. (R. W. Chapman), 861
geologic, of northern portion of Ceja del Rio Puerco, N.M. (K. Bryan and F. T. McCann), 808
geologic, of the Ritter region, Calif. (H. D. Erwin), 394
geologic sketch, east of Toreva, Ariz. (Parry Reiche), 541
geologic sketch, and profile of Five Houses Mesa, near Toreva, Ariz. (Parry Reiche), 544
geology of the Livingston Peak area, Mont. (E. C. H. Lammers), 274
glacial features of Medicine Bow Range (W. W. Atwood, Jr.), 118
glacial features of the Park Range (W. W. Atwood, Jr.), 126
glacial-trough coastline (F. P. Shepard), 612
hogback coastline (F. P. Shepard), 619
Illinois (R. E. Grim, J. E. Lamar, and W. F. Bradley), 831
illustrating barrier beaches and estuaries (F. P. Shepard), 606
illustrating dendritic estuary coastline (F. P. Shepard), 609
illustrating effect of emergence of California coastline (F. P. Shepard), 604
index, of California (E. B. Mayo), 171
index, of Medicine Bow Range (W. W. Atwood, Jr.), 119
index, of northeastern Arizona (Parry Reiche), 539
index, of the Park Range (W. W. Atwood, Jr.), 127
index, showing location of Draper Mountain, Va. (B. N. Cooper), 415
index, showing location of Salmon River area, Idaho (R. A. Wilson), 194
lava-flow coast (F. P. Shepard), 615
location of glacial deposits in Medicine Bow and Park ranges (W. W. Atwood, Jr.), 114
location of Lincoln sill, Me. (J. M. Trefethen), 355
Los Santos, Panama (D. F. MacDonald), 656
mangrove coast (F. P. Shepard), 615
north-central portion of Yellowstone Park (N. A. Miner), 637
Nye Quadrangle, Mont. (J. T. Rouse), 725
partially submerged drumlins (F. P. Shepard), 614
partially submerged moraine, Long Island (F. P. Shepard), 613
pegmatite dike near Goudreau, Ont. (J. L. Lindner), 559
portion of Cucamonga, Calif., topographic sheet (W. C. Krumbein), 587
Sandy Hook (F. P. Shepard), 623
showing angular pattern of estuaries (F. P. Shepard), 610
showing basins associated with glaciation in North America (F. P. Shepard), 79
showing basins associated with glaciation in Northern Europe (F. P. Shepard), 83
showing faults of the Ceja area, N.M. (K. Bryan and F. T. McCann), 812
showing granitic area of the Southern Complex, Mich. (C. A. Lamey), 489

showing lack of relation between earthquake belts and glaciated territory (F. P. Shepard), 84
showing portions of Ohio, Pennsylvania, and West Virginia (W. S. Cole), 143
showing position of large mass of gabbro-granophyre to west of Sudbury irruptive (T. C. Phemister), 8
showing Rio Grande depression (K. Bryan and F. T. McCann), 802
showing Tertiary and Quaternary fracture pattern of Sierra Nevada pluton (E. B. Mayo), 183
showing Toreva-block near Toreva, Ariz. (Parry Reiche), 543
sketch, of outcrop boundaries in Republic trough, Mich. (C. A. Lamey), 496
sketch, showing structural trends in South Liberty area, Me. (J. M. Trefethen), 367
southeastern Missouri, showing diatremes (G. W. Rust), 50
southeastern Missouri, showing quaquaversal drainage (G. W. Rust), 55
straightened seacoast in homogeneous material (F. P. Shepard), 618
structures of the Sierra Nevada pluton (E. B. Mayo), 173
Stull Lake—Echoing River—Sachigo Lake area, Ont. (J. Satterly), 791
tectonic, of the Los Angeles basin (B. L. Clark), 314
volcanic-explosion coast (F. P. Shepard), 616
wave-eroded coastline (F. P. Shepard), 621
West Fork-Willow Creek area, Mont. (J. T. Rouse *et al.*), 720
wind-deposition coastline (F. P. Shepard), 614
zone of intermediate material in the southwestern part of the Sudbury irruptive (T. C. Phemister), 18

Marble at Round Valley, Calif. (R. W. Chapman), 868
Vermont, the velocity of sound in, (J. M. Ide), 710

Marine cycle of erosion for a steeply sloping shoreline of emergence (W. C. Putnam), 844
shorelines, revised classification of (F. P. Shepard), 602

Marsupials, new, from the Tertiary of Nebraska (P. O. McGrew), 448

Maturity of a steeply sloping shoreline of emergence (W. C. Putnam), 849

Mauna Loa, lava flows from (A. E. Jones), 875

Mayo, Evans B. *Sierra Nevada pluton and crustal movement*, 169

Mead, W. J. Cited on experiments in folding (B. L. Clark), 297

Meanders, incised, modification of, by floods (W. S. Cole), 648

Mechanics of deformation in Livingston Peak area, Mont. (E. C. H. Lammers), 288

Medicine Bow and Park ranges, records of Pleistocene glaciers in (W. W. Atwood, Jr.), 113

Mesaverde formation in Arizona (Parry Reiche), 540

Mesozoic geology of the Ritter region, Sierra Nevada, California (H. D. Erwin), 391
rocks in New Mexico (K. Bryan and F. T. McCann), 804

Metamorphic rocks of the Ritter region, Calif. (H. D. Ritter), 393
rocks of the Salmon River region, Idaho (R. A. Wilson), 197

Metamorphism additive, small granodioritic blocks formed by (G. E. Goodspeed), 741
of the Lincoln sill, Me. (J. M. Trefethen), 362
of a pegmatite, the dynamic (J. L. Lindner), 558
near Round Valley, Calif. (R. W. Chapman), 863

Metavolcanic rocks of the Ritter region, Calif. (H. D. Erwin), 393

Methods of stream piracy (I. B. Crosby), 465

Michigan, Southern Complex of (C. A. Lamey), 487

Micro-pegmatitic granite in the Ritter region, Calif. (H. D. Erwin), 402

Middle Devonian of southern Indiana (D. G. Sutton and A. H. Sutton), 320

Miller, A. K. Type invertebrate fossils of North America (Devonian), Unit 7*b*, Ammonoidea. Review by Carey Croneis, 460

Miller, Robert P. *Drainage lines in basrelief*, 432

Miller, W. J. An introduction to historical geology. Review by Lloyd W. Fisher, 799

Miner, Neil A. *Evidence of multiple glaciation in the northern part of Yellowstone National Park*, 636

Mineral analysis of the Black Mountain leucogranodiorite, Vt. (M. S. Church), 767
composition of clays in limestones and dolomites from Illinois (R. E. Grim, J. E. Lamar, and W. F. Bradley), 835
composition in relation to wear of sand grains (R. D. Russell and R. E. Taylor), 252, 259

Mineralogy. By E. H. Kraus, W. F. Hunt, and L. S. Ramsdell. Review by F. J. Pettijohn, 348
of the Santa Fe formation (K. Bryan and F. T. McCann), 814
of the Sudbury irruptive (T. C. Phemister), 29

Minerals, the clay, in Illinois limestones and dolomites (R. E. Grim, J. E. Lamar, and W. F. Bradley), 829

Mississippi River sands, roundness and shape of (R. D. Russell and R. E. Taylor), 225

Mississippian Fayetteville shale, concretions in (A. W. Giles and A. M. Jones), 204
Price formation in Virginia (B. N. Cooper), 414

Missouri, southeastern, preliminary notes on explosive volcanism in (G. W. Rust), 48

Modification of incised meanders by floods (W. S. Cole), 648

Mono volcanoes, Sierra Nevada (E. B. Mayo), 184

Montana, petrology, structure, and relation to tectonics of porphyry intrusions in the Beartooth Mountains, Montana (J. T. Rouse, H. H. Hess, F. Foote, J. S. Vhay, and K. P. Wilson), 717
the structural geology of the Livingston Peak area (E. C. H. Lammers), 268

Moore, R. C. Stratigraphic classification of the Pennsylvanian rocks of Kansas. Review by Jean Grace, 799

Morey, G. W. Cited an annealing Pyrex glass (J. M. Ide), 703

Morphology, cranial, of a new gorgonopsian (E. C. Olson), 511

Mount Ascutney boulder train, dispersion of boulders in (W. C. Krumbein), 590

Mount Zirkel Glacier, Park Range (W. W. Atwood, Jr.), 134

Mounted skeleton of Labidosaurus Cope (E. C. Olson), 95

Muir, J. M. Geology of the Tampico region, Mexico. Review by L. B. Kellum, 339

Multiple glaciation in the northern part of Yellowstone National Park (N. A. Miner), 636

Muscovite in the Black Mountain leucogranodiorite, Vt. (M. S. Church), 772

Myology of *Labidosaurus* Cope (E. C. Olson), 98

Nacimiento uplift, N.M., faulting related to (K. Bryan and F. T. McCann), 824

Nanodelphys minutus, new marsupial from Nebraska (P. O. McGrew), 452

Nejd, drainage lines in bas-relief in (R. P. Miller), 432

Nevin, C. M. Principles of structural geology. Review by H. W. Straley, 568

New gorgonopsian, the cranial morphology of a (E. C. Olson), 511
marsupials from the Tertiary of Nebraska (P. O. McGrew), 448
Mexico, a border feature of the Basin and Range Province in: The Ceja del Rio Puerco, I: Stratigraphy and structure (K. Bryan and F. T. McCann), 801
turtle from the Pliocene of Texas, osteology of Bysmachelys canyonensis (C. S. Johnston), 439

Newcomb Glacier, Park Range (W. W. Atwood, Jr.), 131

Newport-Beverly shear zone, Calif. (E. B. Mayo), 188

Norite, French Creek, the velocity of sound in (J. M. Ide), 708
Sudbury, the velocity of sound in (J. M. Ide), 706

Northern Rhodesia, fossil algae from the Kundelungu series of (B. E. Ashley), 332

Notes, preliminary, on explosive volcanism in southeastern Missouri (G. W. Rust), 48

Obsidian, velocity of sound in (J. M. Ide), 698
Occipital region of *Brachyprosopus broomi* (E. C. Olson), 852
Offshore bars, effect of, on emergent shorelines (F. P. Shepard), 604
Ogilvie, I. H. Cited on Lincoln sill (J. M. Trefethen), 354, 359, 371
Old age of a steeply sloping shoreline of emergence (W. C. Putnam), 850
Olson, Everett Claire. *The cranial morphology of a new gorgonopsian*, 511
A mounted skeleton of Labidosaurus cope, 95
The skull structure of a new anomodont, 851
Ontario, glacial Lakes Ponask and Sachigo, District of Kenora (Patricia portion) (J. Satterly), 790
Opal, coralloidal (C. R. Swartzlow and W. D. Keller), 101
Oregon, additive metamorphism near the Coulter Tunnel, Cornucopia (G. E. Goodspeed), 741
Origin of the Great Lakes basins (F. P. Shepard), 76
Orogenic belts, shifting, of the southern Canadian shield. Studies for students (R. T. Chamberlin), 663
Orthoclase-microcline in the Black Mountain leucogranodiorite, Vt. (M. S. Church), 771
Osage age of the Price formation, Va. (B. N. Cooper), 427
Osteology of Bysmachelys canyonensis, a new turtle from the Pliocene of Texas (C. S. Johnston), 439
Our natural resources and their conservation. By A. E. Parkins and J. R. Whitaker. Review by Jean Grace, 570
Overthrusting versus underthrusting (E. C. H. Lammers), 286
Ozark dome, structure of (G. W. Rust), 51

Pahoehoe flows (A. E. Jones), 873
Palate of *Brachyprosopus broomi* (E. C. Olson), 853
Paleozoic history of the Beartooth-Bighorn region, Mont. (J. T. Rouse *et al.*), 736
rocks in New Mexico (K. Bryan and F. T. McCann), 804
volcanism in southeastern Missouri (G. W. Rust), 48
Paluxy sand, a dicotyledonous florule from the (O. M. Ball), 528
Panama geology, contributions to (D. F. MacDonald), 655
Parent magma, heterogeneity of (J. S. DeLury), 381
Park, C. F. Preliminary report on the gold deposits of the Virginia piedmont. Review by Jean Grace, 688
Park ranges, Medicine Bow and, records of Pleistocene glaciers in the (W. W. Atwood, Jr.), 113
Parker Strath (W. S. Cole), 155
Parkins, A. E., and J. R. Whitaker. Our natural resources and their conservation. Review by Jean Grace, 570
Parks, W. A. Devonian stromatoporoids of North America. Review by Carey Croneis, 341
Pasadenan orogeny, Calif. (W. C. Putnam), 844
(*Patricia portion*), *Ontario, District of Kenora, glacial Lakes Ponask and Sachigo* (J. Satterly), 790
Peary. By W. H. Hobbs. Review by R. T. Chamberlin, 682
Pebble dikes, exfoliation in (R. Farmin), 627
Pebbles, beach, exponential curves applied to (W. C. Krumbein), 579
Pectoral girdle of *Bysmachelys canyonensis* (C. S. Johnston), 440
Pediments near Toreva, Ariz. (Parry Reiche), 545
Pegmatite, the dynamic metamorphism of a (J. L. Lindner), 558
Pelvic girdle of *Bysmachelys canyonensis* (C. S. Johnston), 442
Peneplains, correlation of (W. S. Cole), 141
Peratherium youngi, new marsupial from Nebraska (P. O. McGrew), 449
Perrett, Frank A. The eruption of Mt. Pelée 1929–32. Review by G. F. Shepherd, 110
Petrographic characters of diabase at Sudbury (T. C. Phemister), 5
description of the Black Mountain leucogranodiorite, Vt. (M. S. Church), 768
examination of coralloidal opal (C. R. Swartzlow and W. D. Keller), 106

notes on a metamorphosed pegmatite (J. L. Lindner), 559
study, a quantitative, of the Black Mountain leucogranodiorite at West Dummerston, Vermont (M. S. Church), 763

Petrography of diatreme rocks of southeastern Missouri (G. W. Rust), 63
of hornfels altered by additive metamorphism (G. E. Goodspeed), 745
of the Lincoln sill (J. M. Trefethen), 359
Sudbury irruptive (T. C. Phemister), 18

Petrology, structure, and relation to tectonics of porphyry intrusions in the Beartooth Mountains, Montana (J. T. Rouse, H. H. Hess, F. Foote, J. S. Vhay, and K. P. Wilson), 717

Pettijohn, F. J. Review of Interpretative petrology of the igneous rocks. By H. L. Alling, 567
Review of Mineralogy. By E. H. Kraus, W. F. Hunt, and L. S. Ramsdell, 348

Phemister, T. C. *A Review of the problems of the Sudbury irruptive*, 1

Physiographic history of the Yangtze. By G. B. Barbour. Review by R. T. Chamberlin, 222

Physiography (geomorphology), the, of Western Australia. By J. T. Jutson. Review by F. C. MacKnight, 221
of Los Santos, Panama (D. F. MacDonald), 655
of shorelines of emergence (W. C. Putnam), 844
of the United States. By F. B. Loomis. Review by W. E. Powers, 685

Pilares fault zone, N.M. (K. Bryan and F. T. McCann), 821

Piracy, stream, methods of (I. B. Crosby), 465

Planation capture of streams (I. B. Crosby), 468

Plasteline as a material for pressure-box experiment (B. L. Clark), 300

Plastron of *Bysmachelys canyonensis* (C. S. Johnston), 445

Pleistocene deposits in New Mexico (K. Bryan and F. T. McCann), 818
glaciers, records of, in the Medicine Bow and Park ranges (W. W. Atwood, Jr.), 113

Pliocene of Texas, a new turtle from the, osteology of Bysmachelys canyonensis (C. S. Johnston), 439

Pluton in the Ritter region, Calif. (H. D. Erwin), 400
Sierra Nevada, and crustal movement (E. B. Mayo), 169

Pocock, R. W., and T. H. Whitehead. The Welsh borderland. By D. J. Jones, 352

Ponask and Sachigo, glacial Lakes, District of Kenora (Patricia portion), Ontario (J. Satterly), 790

Porphyroblastic texture in metamorphosed hornfels (G. E. Goodspeed), 745

Porphyry intrusions, petrology, structure, and relation to tectonics of, in the Beartooth Mountains, Montana (J. T. Rouse, H. H. Hess, F. Foote, J. S. Vhay, and K. P. Wilson), 717

Post-Huronian granite of the Southern Complex, Mich. (C. A. Lamey), 491

Powers, William E. Review of Geomorphology of the north flank of the Uinta Mountains. By W. H. Bradley, 346
Review of Physiography of the United States. By F. B. Loomis, 685

Pre-Cambrian diabase, Sudbury irruptive (T. C. Phemister), 2
fossils (B. E. Ashley), 332
orogeny (R. T. Chamberlin), 663
rocks in Maine (J. M. Trefethen), 357
rocks in New Mexico (K. Bryan and F. T. McCann), 804
sediments of the Salmon River region Idaho (R. A. Wilson,) 203

Preliminary notes on explosive volcanism in southeastern Missouri (G. W. Rust), 48
report on the gold deposits of the Virginia Piedmont. By C. F. Park. Review by Jean Grace, 688

Pressure box experiments in folding (B. L. Clark), 296; (E. C. H. Lammers), 293

Pre-Wisconsin glaciation, Medicine Bow and Park ranges (W. W. Atwood, Jr.), 121, 138
in Yellowstone Park (N. A. Miner) 636

Price formation in the Draper Mountain area, Virginia (B. N. Cooper), 414

Primary origin of exfoliation lines (R. Farmin), 631
Principles of structural geology. By C. M. Nevin. Review by H. W. Straley, 568
Probability in exponential functions (W. C. Krumbein), 600
Problems of the Sudbury irruptive, a review of the (T. C. Phemister), 1
Procedure in taxonomy. By E. T. Schenk and J. H. McMasters. Review by Carey Croneis, 344
Proterozoic sediments in the Salmon River region, Idaho (R. A. Wilson), 203
Prowersose in Lincoln sill, Me. (J. M. Trefethen), 354
Publications received, 224
Putnam, William C. *The marine cycle of erosion for a steeply sloping shoreline of emergence*, 844

Quantitative petrographic study of the Black Mountain leucogranodiorite at West Dummerston, Vermont (M. S. Church), 763
Quartz in the Black Mountain leucogranodiorite, Vt. (M. S. Church), 769

Rabbit Ears Glacier, Park Range (W. W. Atwood, Jr.), 130
Ramdohr, Paul. Klockmann's Lehrbuch der Mineralogie. Review by D. J. Fisher, 345
Ramsdell, L. S., E. H. Kraus, and W. F. Hunt. Mineralogy. Review by F. J. Pettijohn, 348
Rate of adjustment of calcium bicarbonate solutions (A. Van Hook), 784
Read, H. H. British regional geology: The Grampian Highlands. Review by R. T. Chamberlin, 881
Rutley's elements of mineralogy. Review by D. J. Fisher, 348
Recent advance of Black Rapids glacier, Alaska (J. H. Hance), 775
deposits in New Mexico (K. Bryan and F. T. McCann), 818
Records of Pleistocene glaciers in the Medicine Bow and Park ranges (W. W. Atwood, Jr.), 113
Recrystallization replacement, a process of hydrothermal metamorphism (G. E. Goodspeed), 762
Red Canyon Glacier, Park Range (W. W. Atwood, Jr.), 132
Red Lodge front, Mont. (J. T. Rouse *et al.*), 719
Reed, R. D. Cited on California Coast Range (B. L. Clark), 297
and J. S. Hollister. Structural evolution of Southern California. Review by Jean Grace, 797
Regional structure of the Bighorn Mountains (E. C. H. Lammers), 271
Reiche, Parry. *The Toreva-block—a distinctive landslide type*, 538
Relation to tectonics, petrology, structure and, of porphyry intrusions in the Beartooth Mountains, Montana (J. T. Rouse, H. H. Hess, F. Foote, J. S. Vhay, and K. P. Wilson), 717
Replacement, recrystallization, a process of hydrothermal metamorphism (G. E. Goodspeed), 762
Reports on the geology of Cameron and Vermillion parishes. By Henry V. Howe, R. J. Russell, J. H. McGuirt, B. C. Craft, and M. B. Stephenson. Review by Donald C. Barton, 109
Republic granite or basement complex. (C. A. Lamey), 487
Review of the problems of the Sudbury irruptive (T. C. Phemister), 1
Revised classification of marine shorelines (F. P. Shepard), 602
Rhodesia, Northern, fossil algae from the Kundelungu series of (B. E. Ashley), 332
Ria coastlines (F. P. Shepard), 609
Richey, J. E. British regional geology: Scotland: The Tertiary volcanic districts. Review by R. T. Chamberlin, 881
Ries, Heinrich, and T. L. Watson. Engineering geology. Review by H. W. Straley, 568
Ring dikes in differentiation problem (C. N. Fenner), 160
Ritter region, Sierra Nevada, California Mesozoic geology of the (H. D. Erwin), 391
River deposition coastline (F. P. Shepard), 611
Roches sedimentaires de France, les—roches carbonatées (calcaires et dolomies). By Lucien Cayeux. Review by W. C. Krumbein, 219

Rock bursts and exfoliation (R. Farmin), 632
Rock Creek Glacier, Medicine Bow Range (W. W. Atwood, Jr.), 121
salient, Sierra Nevada (E. B. Mayo), 177
Rocks and glasses, the velocity of sound in, as a function of temperature (J. M. Ide), 689
Round Valley, California, the contact-metamorphic deposit of (R. W. Chapman), 859
Roundness and shape of Mississippi River sands (R. D. Russell and R. E. Taylor), 225
Rouse, J. T., H. H. Hess, F. Foote, J. S. Vhay, and K. P. Wilson. *Petrology, structure, and relation to tectonics of porphyry intrusions in the Beartooth Mountains, Montana*, 717
Russell, R. Dana, and Ralph E. Taylor. *Roundness and shape of Mississippi River sands*, 225
Rust, George W. *Preliminary notes on explosive volcanism in southeastern Missouri*, 48
Rutley's elements of mineralogy. By H. H. Read. Review by D. J. Fisher, 348

Sachigo and Ponask, glacial Lakes, District of Kenora (Patricia portion), Ontario (J. Satterly), 790
Salmon River region near Shoup, Idaho, sedimentary gneisses of the (R. A. Wilson), 193
San Andreas rift (E. B. Mayo), 187
San Joaquin section of the Sierra Nevada (E. B. Mayo), 172
Sand Hill fault, N.M. (K. Bryan and F. T. McCann), 821
Sands, Mississippi River, roundness and shape of (R. D. Russell and R. E. Taylor), 225
Sandstone, the velocity of sound in (J. M. Ide), 707
Santa Fe formation, N.M. (K. Bryan and F. T. McCann), 806
Sapindopsis cooki Ball (O. M. Ball), 536
Satterly, Jack. *Glacial Lakes Ponask and Sachigo, District of Kenora (Patricia portion), Ontario*, 790
Saudi Arabia, bas-relief drainage in (R. P. Miller), 432
Schaffer, F. X. Lehrbuch der Geologie, Teil III: Geologische Länderkunde (Regionale Geologie). Review by Jean Grace, 576
Schenk, E. T., and J. H. McMasters. Procedure in taxonomy. Review by Carey Croneis, 344
Schooley erosion surface (W. S. Cole), 141, 150
Schwartz, G. M. The geology of the Minneapolis-St. Paul metropolitan area. Review by Jean Grace, 464
Sedimentary environment of the Price formation, Va. (B. N. Cooper), 428
gneisses of the Salmon River region near Shoup, Idaho (R. A. Wilson), 193
rocks of Los Santos, Panama (D. F. MacDonald), 657
Sedimentology of the Santa Fe formation, N.M. (K. Bryan and F. T. McCann), 810
Sediments and exponential curves (W. C. Krumbein), 577
at Round Valley, Calif. (R. W. Chapman), 862
Sellersburg limestone, Indiana (D. G. Sutton and A. H. Sutton, 320, 325
Separation of clay minerals (R. E. Grim, J. E. Lamar, and W. F. Bradley), 830
Series of experiments, folding of the California Coast Range type illustrated by a (B. L. Clark), 296
Shale, Fayetteville, concretions in the (A. W. Giles and A. M. Jones), 204
Shales of Los Santos, Panama (D. F. MacDonald), 657
Shape of Mississippi River sands, roundness and (R. D. Russell and R. E. Taylor), 225
Shearing in the Lincoln sill (J. M. Trefethen), 368
Shepard, Francis P. *Origin of the Great Lakes basins*, 76
Revised classification of marine shorelines, 602
Shepherd, G. F. Review of The eruption of Mt. Pelée 1929–1932. By F. A. Perrett, 110
Shift zones in Livingston Peak area, Mont. (E. C. Lammers), 281

Shifting orogenic belts of the southern Canadian shield. Studies for students (R. T. Chamberlin), 663
Shoreline of emergence, a steeply sloping, the marine cycle of erosion for a (W. C. Putnam), 844
Shorelines, marine, revised classification of (F. P. Shepard), 602
Shoup, Idaho, sedimentary gneisses of the Salmon River region near (R. A. Wilson), 193
Sierra Nevada batholith, exfoliation in (R. Farmin), 626
California, Mesozoic geology of the Ritter region (H. D. Erwin), 391
pluton and crustal movement (E. B. Mayo), 169
Silica, effect of, on the velocity of sound in glass (J. M. Ide), 704
Silicates at Round Valley, Calif. (R. W. Chapman), 865
Sill, the Lincoln (J. M. Trefethen), 353
Sills of diabase at Sudbury (T. C. Phemister), 4
Sinkholes of the Cumberland Plateau (R. A. Laurence), 214
Siyeh limestone, snowslide grooves on (J. L. Dyson), 549
Skeleton, mounted, of Labidosaurus Cope (E. C. Olson), 95
Skull of *Bysmachelys canyonensis* (C. S. Johnston), 440
of *Cyanosaurus longiceps* (E. C. Olson), 512
structure of a new anomodont (E. C. Olson), 851
Small granodioritic blocks formed by additive metamorphism (G. E. Goodspeed), 741
Snellius Expedition, the, Vol. II: Oceanographic results, Part II: Soundings and bathymetric charts. By P. M. van Riel. Review by W. C. Krumbein, 220
Snowslide striations (J. L. Dyson), 549
Soda Creek Glacier, Park Range (W. W. Atwood, Jr.), 128
Solenhofen limestone, the velocity of sound in (J. M. Ide), 710
Soluble rocks, underground methods of stream capture in (I. B. Crosby), 474
Sommerville erosion surface (W. S. Cole), 141
Sonnwendgebirge im Unterinntal, das: Ein Typus alpinen Gebirgsbaues. By Franz Wähner. Review by W. C. Krumbein, 349
Sound in rocks and glasses, the velocity of, as a function of temperature (J. M. Ide), 689
South Africa, an anomodont from (E. C. Olson), 851
Southeastern Missouri, preliminary notes on explosive volcanism in (G. W. Rust), 48
Southern Canadian shield, shifting orogenic belts of the. Studies for students (R. T. Chamberlin), 663
Indiana, Middle Devonian of (D. G. Sutton and A. H. Sutton), 320
Sphericity in sand grains (R. D. Russell and R. E. Taylor), 250
Stalactites, lava (C. R. Swartzlow and W. D. Keller), 104
Stamp, L. Dudley. Asia: A regional and economic geography. Review by Jean Grace, 352
Static rejuvenation (W. S. Cole), 153
Stearns, Norah D. An island is born. Review by Jean Grace, 576
Steel, velocity of sound in (J. M. Ide), 694
Steeply sloping shoreline of emergence, the marine cycle of erosion for a (W. C. Putnam), 844
Stockdale, P. B. Cited on sinkholes in sandstone (R. A. Laurence), 214
Straley, H. W. Review of Engineering geology. By H. Ries and T. L. Watson, 568
Review of Principles of structural geology. By C. M. Nevin, 568
Stratigraphic classification of the Pennsylvanian rocks of Kansas. By R. C. Moore. Review by Jean Grace, 799
Stratigraphy of the Livingston Peak area, Mont. (E. C. H. Lammers), 270
and structure. The Ceja del Rio Puerco: A border feature of the Basin and Range Province in New Mexico (K. Bryan and F. T. McCann), 801
Stream abrasion in rounding of pebbles (R. D. Russell and R. E. Taylor), 225
control of erosion surfaces (W. S. Cole), 154

erosion during floods (W. S. Cole) 648
piracy, methods of (I. B. Crosby), 465
Striations, snowslide (J. L. Dyson), 549
Structural control of erosion surfaces, development and (W. S. Cole), 141
evolution of Southern California. By R. D. Reed and J. S. Hollister. Review by Jean Grace, 797
features of Sudbury irruptive (T. C. Phemister), 17
geology of the Livingston Peak area, Montana (E. C. H. Lammers), 268
relations of diabase, Sudbury, Ont. (T. C. Phemister), 4
Structure of the Alps. By L. W. Collet. Review by R. T. Chamberlin, 574
of diatreme region in southeastern Missouri (G. W. Rust), 51
of the Lincoln sill, Me. (J. M. Trefethen), 364
petrology, and relations to tectonics of porphyry intrusions in the Beartooth Mountains, Montana (J. T. Rouse, H. H. Hess, F. Foote, J. S. Vhay, and K. P. Wilson), 717
of the Ritter region, Calif. (H. D. Erwin), 402
the skull, of a new anomodont (E. C. Olson), 851
and stratigraphy. The Ceja del Rio Puerco: A border feature of the Basin and Range Province in New Mexico (K. Bryan and F. T. McCann), 801
Structures, internal, of the Sierra Nevada pluton (E. B. Mayo), 174
Studies for students. Shifting orogenic belts of the southern Canadian shield (R. T. Chamberlin), 663
Study, a quantitive petrographic, of the Black Mountain leucogranodiorite at West Dummerston, Vermont (M. S. Church), 763
Subterranean capture of surface streams (I. B. Crosby), 468
Suce Creek window thrust, Livingston Peak, Mont. (E. C. H. Lammers), 273, 291
Sudbury irruptive, a review of the problems of the (T. C. Phemister), 1
norite, the velocity of sound in (J. M. Ide), 706
Summan caliche formation, Saudi Arabia (R. P. Miller), 434
Surface methods of stream capture (I. B. Crosby), 469
Suspendritic drainage in Saudi Arabia (R. P. Miller), 438
Sutton, A. H., and D. G. Sutton. *Middle Devonian of southern Indiana*, 320
Sutton, D. G., and A. H. Sutton. *Middle Devonian of southern Indiana*, 320
Swartzlow, C. R., and W. D. Keller. *Coralloidal opal*, 101
Szadeczky-Kardoss, E. v. Cited on wear of sand grains (R. D. Russell and R. E. Taylor), 231

Tactite at Round Valley, Calif. (R. W. Chapman), 865
Tann, H. C., and C. Y. Lee. Atlas for the geology of Szechuan Province and eastern Sikang. Review by Jean Grace, 350
Taylor, Griffith. Environment and nation. Review by Jean Grace, 571
Taylor, Ralph E., and R. Dana Russell. *Roundness and shape of Mississippi River sands*, 225
Technique of pressure-box experiments (B. L. Clark), 300
Tectonics of porphyry intrusions in the Beartooth Mountains, Montana, petrology, structure, and relation to (J. T. Rouse, H. H. Hess, F. Foote, J. S. Vhay, and K. P. Wilson), 717
Temperature, the velocity of sound in rocks and glasses as a function of (J. M. Ide), 689
Tertiary faunas: A textbook for oil field paleontologists and students of geology, Vol. I: The composition of Tertiary faunas. By A. Morley Davies. Review by Carey Croneis, 342
of Nebraska, new marsupials from the (P. O. McGrew), 448
rocks in New Mexico (K. Bryan and F. T. McCann), 805
Tester, A. C. Cited on wear of sand grains (R. D. Russell and R. E. Taylor), 230
Texas, a dicotyledonous florule from the Trinity group of (O. M. Ball), 528
a new turtle from the Pliocene of, osteology of *Bysmachelys canyonensis* (C. S. Johnston), 439
Thickness of loess, variation in (W. C. Krumbein), 582
Thlaeodontinae, new marsupial from Nebraska (P. O. McGrew), 452
Tibet, orogeny in (R. T. Chamberlin), 665

Timiskaming sedimentary belt (R. T. Chamberlin), 670
Tintic formation, exfoliation in (R. Farmin), 627
Topography of the Salmon River valley (R. A. Wilson), 195
Toreva-block—a distinctive landslide type (Parry Reiche), 538
Treasures in the earth. By E. F. Fitzhugh. Review by W. C. Krumbein, 349
Trefethen, J. M. *The Lincoln sill*, 353
Trinity group of Texas, a dicotyledonous florule from the (O. M. Ball), 528
Trowbridge, A. C. Review of Down to earth. By Carey Croneis and W. C. Krumbein, 458
Tuffaceous rocks, pre–Santa Fe, N.M. (K. Bryan and F. T. McCann), 817
Tunnels, lava (C. R. Swartzlow and W. D. Keller), 102
Tuolumne complex, Sierra Nevada (E. B. Mayo), 174
Turtle, a new, from the Pliocene of Texas, osteology of Bysmachelys canyonensis (C. S. Johnston), 439
Type invertebrate fossils of North America (Devonian) Unit 7*b*, Ammonoidea. By A. K. Miller. Review by Carey Croneis, 460

Underground methods of stream capture (I. B. Crosby), 474
Underthrusting versus overthrusting (E. C. H. Lammers), 286
Upland erosion surface (W. S. Cole), 150, 156

Valley origin of Great Lakes basins (F. P. Shepard), 77
Van Hook, Andrew. *The rate of adjustment of calcium bicarbonate solutions*, 784
van Riel, P. M. The Snellius Expedition, Vol. II: Oceanographic results, Part II: Soundings and bathymetric charts. Review by W. C. Krumbein, 220
Varved clays of glacial Lakes Ponask and Sachigo, Ont. (J. Satterly), 790
Velocity of sound in rocks and glasses as a function of temperature (J. M. Ide), 689
Ventura, Calif., coastline (W. C. Putnam), 844
Vermont marble, the velocity of sound in (J. M. Ide), 710
a quantitative petrographic study of the Black Mountain leucogranodiorite at West Dummerston (M. S. Church), 763
Vertebrae of *Bysmachelys canyonensis* (C. S. Johnston), 445
Vertebrate paleontology, skeleton of *Labidosaurus* Cope (E. C. Olson), 95
Vhay, J. S., K. P. Wilson, J. T. Rouse, H. H. Hess, and F. Foote. *Petrology, structure, and relation to tectonics of porphyry intrusions in the Beartooth Mountains, Montana*, 717
Vibrations in rocks, damping of (J. M. Ide), 716
Vickery, F. P. Cited on California Coast Range (B. L. Clark), 297
View of magmatic differentiation (C. N. Fenner), 158
Vinal Haven diabase, the velocity of sound in (J. M. Ide), 709
Virginia, the Price formation in the Draper Mountain area (B. N. Cooper), 414
Volcanic-explosion coast (F. P. Shepard), 617
rocks of the Ritter region, Calif. (H. D. Erwin), 393
Volcanism, explosive, in southeastern Missouri, preliminary notes on (G. W. Rust), 48
younger, associated with Sierra Nevada pluton (E. B. Mayo), 182

Waddell, H. Cited on wear of sand grains (R. D. Russell and R. E. Taylor), 231
Wähner, Franz. Das Sonnwendgebirge im Unterinntal: Ein Typus alpinen Gebirgsbaues. Review by W. C. Krumbein, 349
Warping of peneplain surfaces (W. S. Cole), 156
Watson, T. L., and H. Ries. Engineering geology. Review by H. W. Straley, 568
Wave-eroded coastline (F. P. Shepard), 621
straightened coastline (F. P. Shepard), 620
Welsh borderland, the. By R. W. Pocock and T. H. Whitehead. Review by D. J. Jones, 352

Wentworth, C. K. Cited on wear of sand grains (R. D. Russell and R. E. Taylor), 229
Western Nevada shear zone (E. B. Mayo), 189
Whitaker, J. R., and A. E. Parkins. Our natural resources and their conservation. Review by Jean Grace, 570
Whitehead, T. H., and R. W. Pocock. The Welsh borderland. Review by D. J. Jones, 352
Willis, Bailey. East African plateaus and rift valleys. Review by R. T. Chamberlin, 216
Letter to the editor, 336
Wilson, K. P., J. T. Rouse, H. H. Hess, F. Foote, and J. S. Vhay. *Petrology, structure, and relation to tectonics of porphyry intrusions in the Beartooth Mountains, Montana*, 717
Wilson, Roy A. *Sedimentary gneisses of the Salmon River region near Shoup, Idaho*, 193
Wind-deposition coastline (F. P. Shepard), 617
erosion in Saudi Arabia (R. P. Miller), 435
Wisconsin glaciation in Medicine Bow and Park ranges (W. W. Atwood, Jr.), 115, 123
in Yellowstone Park (N. A. Miner), 636
Wissenschaftliche Ergebnisse der deutschen atlantischen Expedition auf dem Forschungs- und Vermessungschiff "Meteor" 1925–1927. Review by W. C. Krumbein, 456
Woldstedt, P. Erläuterung zur geologisch-morphologischen Übersichtskarte des nord-deutschen Vereisungsgebietes. Review by C. H. Behre, 462
Wyoming, Pleistocene glaciation in the Medicine Bow and Park ranges (W. W. Atwood, Jr.), 113

X-ray analysis of clay minerals (R. E. Grim, J. E. Lamar, and W. F. Bradley), 834

Yellowstone National Park, evidence of multiple glaciation in the northern part of (N. A. Miner), 636
Yosemite section of the Sierra Nevada (E. B. Mayo), 172
Young's modulus, dependent of rock structure (J. M. Ide), 713
Youth of a steeply sloping shoreline of emergence (W. C. Putnam), 847